

REMARKS

The Applicants have carefully considered this application in connection with the Examiner's Action and respectfully request reconsideration of this application in view of the foregoing amendments and the following remarks.

The Applicants originally submitted Claims 1-10 in the application. Claim 2 was previously cancelled and Claim 11 was previously added in a prior amendment. Claims 1, 5, 6, and 8-11 are amended herein and Claims 12-21 are added in the present amendment. Additionally, the Examiner has indicated that Claims 1, 3-7 and 11 are allowable pending resolution of certain claim objections thereto. Accordingly, Claims 1, and 3-21 are currently pending in the application.

I. Claim Objections

The Examiner has objected to Claims 1, 3-7 and 11 because of certain informalities. The Applicants have amended the claims in accordance with the Examiner's suggestions to overcome the objections thereto. In addition, assuming that the informalities with respect to Claim 11 have been addressed and overcome, Claims 12-21 should also be in condition for allowance as the foregoing claims depend on Claim 11.

II. Rejection of Claims under 35 U.S.C. §102

The Examiner has rejected Claims 8-10 under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,091,932 to Langlais. As the Examiner is no doubt aware, anticipation requires that each and every element of the claimed invention be disclosed in a single prior art reference; the disclosed elements must either be disclosed expressly or inherently and must be arranged as in the rejected claims.

The Examiner believes that Langlais discloses a transmitter including a QAM converter that converts information to a frequency domain signal and an IFFT modulator that transforms the frequency domain signal to a time domain signal, modulates only the middle 544 of the 1024 tones, while the outside tones are set to zero amplitude values to ease signal filtering requirements, and minimizes image foldover distortion of the OFDM spectrum. (Column 14, lines 56-59.) The Applicants, however, believe that Langlais fails to disclose the invention as recited in Claim 8 for many of the reasons that Claims 1, 3-7 and 11 are allowable as admitted by the Examiner.

More specifically, the Examiner believes that the prior art (including Langlais) fails to disclose the following combination of limitations. For instance, the prior art fails to teach transforming a signal from the frequency to the time domain resulting in a plurality of sub-symbols having near zero amplitude. In accordance therewith, the prior art fails to disclose dropping the plurality of sub-symbols having near zero amplitude to produce a truncated time domain signal. Furthermore, the prior art fails to disclose appending a cyclic prefix to the truncated time domain signal. The combination of the aforementioned limitations is not only

included in Claim 8, but the limitations are consistent with the Examiner's reasons for allowance of other claims of the present application.

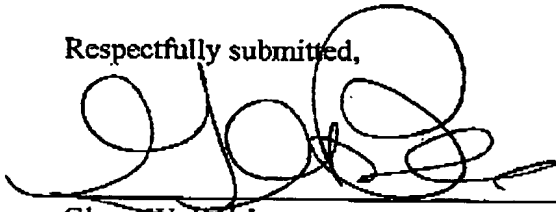
Thus, Langlais does not disclose each and every element of Claim 8, and the claims dependent thereon, and, as such, is not an anticipating reference. Accordingly, the Applicants respectfully request the Examiner to withdraw the §102 rejection in view of Langlais with respect to Claims 8-10.

III. Conclusion

In view of the foregoing amendments and remarks, the Applicants now see all of the claims currently pending in this application to be in condition for allowance and therefore earnestly solicit a Notice of Allowance for Claims 1 and 3-21.

The Applicants request that the Examiner telephone the undersigned attorney of record at (972) 732-1001 if such would further expedite the prosecution of the present application. No fee is believed due in connection with this filing. However, should one be deemed due, the Commissioner is hereby authorized to charge Deposit Account No. 50-1065.

Respectfully submitted,



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Date

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